

Title (en)

Multilevel semiotic and fuzzy logic user and metadata interface means for interactive multimedia system having cognitive adaptive capability

Title (de)

Auf multidimensionale Semiotik und Fuzzylogik basierende Metadaten- und Benutzeroberfläche für ein interaktives Multimediasystem mit wissenbasierter Adaptationsfähigkeit

Title (fr)

Moyens d'interface pour metadata et utilisateur basés sur une semiotique à plusieurs niveaux et une logique floue pour un système interactif multimédia ayant une capacité d'adaptation par acquisition de connaissances

Publication

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Application

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Abstract (en)

The multilevel semiotic and fuzzy logic user and metadata interface means according to the present invention comprises: an interactive user interface means comprising at least one multilevel semiotic means addressable by a user and a fuzzy logic descriptor set module for storing multiple fuzzy logic descriptor sets, each fuzzy logic descriptor set being related to a respective level of each of said multilevel semiotic means and describing at least one level of significance of interactivity corresponding to said respective level of each of said multilevel semiotic means, each fuzzy logic descriptor set defining at least one fuzzy semiotic membership function definable by and based on the addressing of a level of each of said multilevel semiotic means and at least one significance attributed to said level, a metadata layer for linking said multilevel semiotic means to interactivity points present in the content of said multimedia representation and defined by said metadata layer such that each level of each of said multilevel semiotic means identifies an interactivity point in said content and allows selection of said interactivity point and presentation of content according to said selection, and a user control device for addressing said multilevel semiotic means.

IPC 8 full level

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